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On Bank-Laine Functions

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Abstract. In this article, we improve results of Langley and Whitehead on Bank-Laine functions. If E is a Bank-Laine function and F is an entire function of finite order which has the same zeros as E in a certain sector S of the complex plane and the set of Bank-Laine points of F in S has positive lower density in the set of zeros of F in S , then F can only be of a certain form.

Keywords. Bank-Laine functions, zeros.

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